



## PARAHO DEVELOPMENT CORPORATION

December 22, 1982

Mr. D. W. Hedberg  
 State of Utah  
 Natural Resources & Energy  
 Oil, Gas & Mining  
 4241 State Office Building  
 Salt Lake City, UT 84114

RECEIVED  
 DEC 23 1982

DIVISION OF  
 OIL, GAS & MINING

Dear Wayne:

We have obtained the information that the Utah Division of Oil, Gas and Mining required concerning reclamation bonding for the Paraho-Ute project.

For the first segment of operations, Site Development, we will construct the following: off-site Rights-of-Way; the construction camp area in Section 6; and access roads, cut-and-fill operations, along with foundations for the temporary construction buildings in Section 32. Site Development will disturb 318 acres of land, install about 224,000 square yards of paved surfaces, and construct foundations for 22 buildings having a composite area of 22,875 square yards. Using 1983 cost factors of \$6,700/acre reclamation, \$3.00/square yard of asphalt break-up, and \$10.00/square yard for foundation break-up, the reclamation costs for this segment would be \$2,983,000. Details of these data are presented in Attachment A along with certain maps and tables from Paraho's Conditional Use Permit.

The bachelor quarters are modular design erected on all-weather wood foundations. The common buildings and temporary construction facilities are pre-engineered construction erected on concrete slabs. All buildings will be removed and reused. Only the abovementioned concrete slab foundations will be subject to reclamation. We have requested a letter from the Daniel Construction Company that discusses these matters based upon their experience.

Also, we have summarized projected reclamation costs for the first four segments of the Paraho-Ute project in 1983 dollars and as-spent dollars (see Attachment C). These costs indicate the as-spent costs range from about \$3 million for the final segment in 1983 to more than \$16 million after full operations in 1994.

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Finally, Paraho plans to provide the Division suitable assurance in the form of a bond for the reclamation of the Site Development segment. This bond would be posted prior to beginning any field work. Details of the bonding procedure will be provided by MR. E. R. Davis, Vice President and Chief Financial Officer for Paraho Development Corporation.

We trust this information meets your needs and look forward to attending the Board meeting on December 31, 1982.

Merry Christmas and a Happy New Year!

Sincerely,

A handwritten signature in cursive script, appearing to read "R. N. Heistand".

Robert N. Heistand  
Vice President,  
Environmental Affairs

RH:ks

enclosures

**ATTACHMENT A**  
**SITE DEVELOPMENT**

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DEC 23 1982

**DIVISION OF  
OIL GAS & MINING**

## SITE PREPARATION

### RECLAMATION DETAILS

1.	Construct off-site power, water, and roads R-O-W's	125 acres disturbed 61,500 yard <sup>2</sup> paving	\$800,000 184,500
2.	Construct camp area, roads, parking, and foundations	108 acres <sup>2</sup> disturbed 90,222 yd <sup>2</sup> paving 8,384 yd <sup>2</sup> foundations	691,200 270,666 100,608
3.	Perform cut-and-fill at plant site; construct roads, parking and foundations	85 acres <sup>2</sup> disturbed 72,400 yd <sup>2</sup> paving 14,491 yd <sup>2</sup> foundations	544,000 217,200 173,892

TOTAL	\$2,982,066
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12/21/82

**CONSTRUCTION CAMP BUILDINGS \***

**FOUNDATION DATA**

<u>BUILDING</u>	<u>DIMENSIONS</u> (ft)	<u>Area</u> (yd <sup>2</sup> )	<u>Volume**</u> (yd <sup>3</sup> )
Training	87.5 x 100	972	211
Maint/Serv	45 x 50	250	66
Water Trtmt	30 x 50	167	49
Node Centers 2 each	100 x 150	3,333	685
Community Center	125 x 175	2,430	483
Admin	87.5 x 100	972	211
R V Nodes 3 each	26 X 30	<u>260</u>	<u>87</u>
	TOTAL	8,384	1,792

\* Table 2-2 Conditional Use Permit Construction Camp, Dec.1982

\*\* Six-inch slabs plus foundations (8-12" x 3½')

12/21/82

**TEMPORARY CONSTRUCTION BUILDINGS\***

**FOUNDATION DATA**

<u>BUILDING</u>	<u>DIMENSIONS</u> (ft)	<u>AREA</u> (yd <sup>2</sup> )	<u>VOLUME</u> (yd <sup>3</sup> )**
Admin	80 x 125	1,111	238
Personnel	50 x 60	333	84
Brass Alley 2 each	15 x 20	67	29
Craft Shop	150 x 200	3,333	646
Warehouse 3 each	125 x 160	6,667	1,333
Equip Maint	60 x 100	667	263
Area Mgr Off 3 each	70 x 100	<u>2,333</u>	<u>521</u>
	TOTAL	14,491	3,114

\* Table 2-2 Conditional Use Permit Construction Camp, Dec.1982

\*\* Six-inch slabs plus foundations (8-12" x 3½')

PAVING AND SIDEWALKS\*

<u>ITEM</u>	<u>DIMENSIONS</u>	<u>AREA(YD<sup>2</sup>)</u>
Offsite-Main Access	2.1 mi x 34 ft	41,900
Offsite Camp Access	2.1 mi x 24 ft	29,600
Onsite Camp Roads	0.9 mi x 24 ft	12,700
Onsite Connecting Road	2.3 mi x 24 ft	32,400
Camp Parking, Sidewalks, Basketball Courts, etc.		85,000
Site Parking and Sidewalks		<u>40,000</u>
	TOTAL	241,600

\*Same as before

Table 2-2

Paraho-Ute Project  
Construction Camp Community  
Buildings

I. <u>COMMON BUILDINGS</u>	<u>APPROXIMATE</u> <u>SQ. FOOTAGE</u>
1. Training	8,750
2. Maintenance and Service	2,250
3. Water Treatment	1,500
4. Primary Node Center Kitchen, Food Service Dining Restrooms Storage, Hall	15,000
5. Secondary Node Dining Restrooms Storage, Hall Telephones	15,000
6. Community Center Game Rooms Commissary Weight/Exercise Gymnasium Telephones Art/Craft Television Rooms Lounge/Bar Sandwich Bar Postal Library Barber Shop Laundry Restrooms Storage Hallways Outside Picnic Area Bank/Check Cashing	21,875



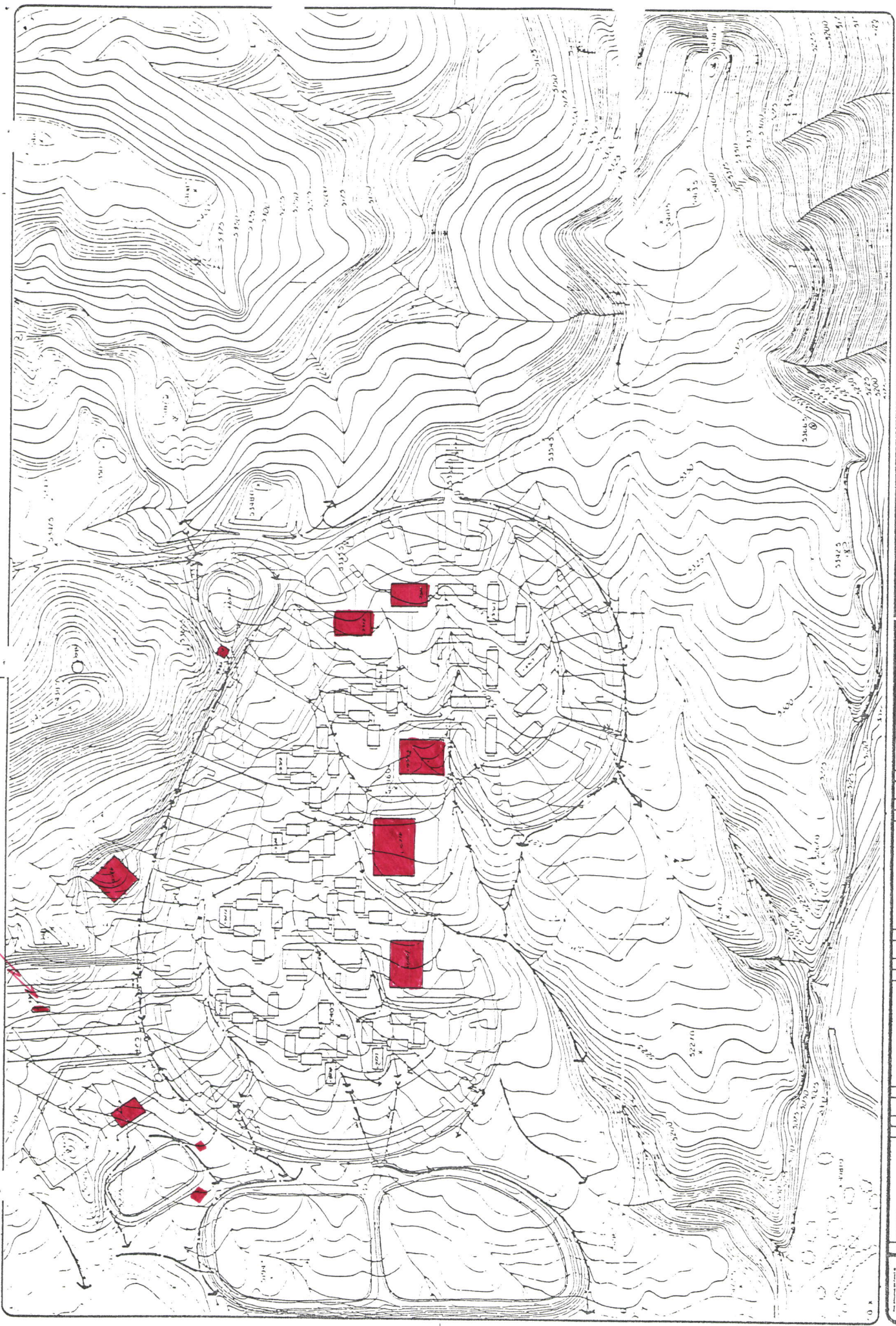


Table 2-2, cont.

I. <u>COMMON BUILDINGS</u>		<u>APPROXIMATE</u> <u>SQ. FOOTAGE</u>
7. Administrative Services Building		8,750
Data Processing		
Reception		
Ambulance Bay		
Fire Truck Bay		
First Aid		
Security		
Caterer Office		
Camp Manager Office		
Chaplain Office		
Chapel		
Hallway		
Storage		
Restrooms		
8. RV Node Center (3)		780
Vending Area		
Showers/Toilet		
Laundry Facilities		
II. <u>RESIDENCES</u>	<u>SQ. FT. PER</u> <u>ROOM</u>	<u># OF</u> <u>BUILDINGS</u>
1. Craft	154	45
2. Supervisory	180	8
3. Guest	180	1
4. Recreational Vehicle Spaces*		200

\* Initially, 50 - 75 spaces will be developed with additional spaces provided as required.

(3)



PROJECT NUMBER: _____		DATE: _____	
DRAWN BY: _____		CHECKED BY: _____	
SCALE: _____		SHEET NUMBER: _____	
PROJECT TITLE: <b>PARADISE HILL SUBDIVISION</b>			
SUBTITLE: <b>SITE &amp; GRADING PLAN -</b>			
DRAWN BY: <b>ENGINEERING</b>			
DATE: _____			

■ Bldgs w Concrete Pads

Figure 2.10



Table 2-3  
Paraho-Ute Project  
Temporary Construction Buildings

<u>Building</u>	<u>Number Req'd.</u>	<u>Type</u>	<u>Size</u>	<u>Services</u>
Administration	1	Pre-Engr Metal	10,000	PW & S
Personnel	1	"	3,000	PW & S
Brass Alley	2	"	300	
Craft Shop & Quality Control	1	"	30,000	
Warehouse	3	"	20,000	
Equip Maintenance	1	"	6,000	
Area Mgr's Office	3	"	7,000	PW & S
Mobile Office	6	Trailer	500	
Toilet Trailers	10	Trailer	500	PW & S

PW - Potable Water

S - Sewer

# LEGEND

- 1 WASTE COMPLETION DRIVE UNDER
- 2 WASTE CONCRETE
- 3 WASTE BLADE BIN
- 4 EFFLUENT RAW SHALE STORAGE
- 5 CRUISING AND RESERVING BLANK
- 6 CENTRAL CONTROL ROOM & LAB
- 7 CONVEYOR MOUNTING HORSES
- 8 PREPARED SHALE COVERED STORAGE
- 9 DISTRIBUTION BIN
- 10 WASHING STATION
- 11 SAMPLING AND WEIGHING HOUSE
- 12 RETURN
- 13 OIL RECOVERY
- 14 COMPLETION ISSUES
- 15 OIL CLEANING
- 16 POWER GENERATION
- 17 OIL COLEIN
- 18 FACTORY
- 19 HYDRO TREATMENT
- 20 SANITARY W W TREATMENT
- 21 FIREWATER POND
- 22 EFFLUENT TANK
- 23 PROCESS W W TREATMENT
- 24 RETENTION POND
- 25 THICKENING POND
- 26 AIR COMP. PLANT STEAM & HOT GAS STORAGE YARD
- 27 RECYCLED SHALE
- 28 RAW SHALE PILES
- 29 PLANT
- 30 WASTE SURFACE FACILITIES
- 31 RECYCLED SHALE DISPOSAL CONVEYOR
- 32 FUEL OIL STORAGE
- 33 PULVERIZED FUEL STORAGE
- 34 WASTE ENTRANCE & VENT PILES
- 35 OIL IMPURITIES CLAMP
- 36 MAINTENANCE BARGE
- 37 GATEHOUSE
- 38 PULVERIZED FUEL STORAGE
- 39 RECYCLED SHALE DISPOSAL STORAGE
- 40 SUPPLEMENTAL BULK STORAGE AREA
- 41 FUEL OIL PUMP AND STATION
- 42 ASBESTOS REMOVAL PLANT & WASTE PILE
- 43 AMMONIUM STORAGE
- 44 FUEL OIL STORAGE
- 45 LIQUID FERTILIZER RECEIVING AND STORAGE
- 46 FERTILIZER BINS
- 47 AMMONIUM STORAGE BINS
- 48 WASTE ALLEY
- 49 UNIT "A"
- 50 UNIT "B"
- 51 UNIT "C"
- 52 UNIT "D"
- 53 UNIT "E"
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- 675 UNIT "XC"
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- 690 UNIT "XR"
- 691 UNIT "XS"
- 692 UNIT "XT"
- 693 UNIT "XU"
- 694 UNIT "XV"
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- 696 UNIT "XX"
- 697 UNIT "XY"
- 698 UNIT "XZ"
- 699 UNIT "YA"
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- 701 UNIT "YC"
- 702 UNIT "YD"
- 703 UNIT "YE"
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- 707 UNIT "YI"
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- 716 UNIT "YR"
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- 718 UNIT "YT"
- 719 UNIT "YU"
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- 721 UNIT "YW"
- 722 UNIT "YX"
- 723 UNIT "YY"
- 724 UNIT "YZ"
- 725 UNIT "ZA"
- 726 UNIT "ZB"
- 727 UNIT "ZC"
- 728 UNIT "ZD"
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- 741 UNIT "ZQ"
- 742 UNIT "ZR"
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- 745 UNIT "ZU"
- 746 UNIT "ZV"
- 747 UNIT "ZW"
- 748 UNIT "ZX"
- 749 UNIT "ZY"
- 750 UNIT "ZZ"

LEGEND

SECTION 32

TO SECTION 6

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Buildings w/ Concrete Pad

**ATTACHMENT C  
COST SUMMARY  
PARAHO-UTE RECLAMATION**

	ACTIVITIES			ESTIMATED COSTS	
	DISTURBED ACRES	PAVED SURFACES*	FOUNDATIONS*	(THOUSAND \$) 1983	AS-SPENT***
Site Preparation (1983)	318	224	23	2,983	2,983
Complete Phase I (1984-1986)	418	300	100	4,775	6,087
Start Full Operations (1987-1988)	571	300	200	6,954	10,218
Complete Full Operations (1989-1994)	550	225	225	6,895	16,076

\*in thousand square yards

\*\*\$6,700/acre; \$3.00/square yard, paving break-up; \$12/square yard,  
foundation break-up

\*\*\*inflation at 8%/year